Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (currently amended): A device for position and/or length determination, ~~the object is achieved by providing a device comprising a carrier unit with an absolute magnetic length coding and a measuring unit that cooperates with the carrier unit and can be moved in relation to the latter, said measuring unit having a magnetic sensor unit (Sci, Sfi) and being able to be connected to an electronic evaluation unit (18 to 32) that is located downstream of said measuring unit, characterized in that the elongate and rod-shaped carrier unit (10) is provided with one track of preferably radially magnetized length coding, a plurality of coding sections with a regular pole division is~~ are ~~provided along the length coding and coding sections of a first polarity are arranged to alternate with coding sections of a second polarity along the carrier unit in such a way that a maximum of two coding sections of the same polarity lie directly adjacent to one another~~ comprising a carrier unit with an absolute magnetic length coding and a measuring unit that cooperates with the carrier unit and is movable relative thereto, said measuring unit having a magnetic sensor unit (Sci, Sfi) and being able to be connected to an electronic evaluation unit (18 to 32) that is located downstream of said measuring unit, wherein the carrier unit is an elongate and rod-shaped carrier unit (10) provided with one track of preferably radially magnetized length coding,

a plurality of coding sections with a regular pole division is provided along the length coding and coding sections of a first

polarity are arranged to alternate with coding sections of a
second polarity along the carrier unit in such a way that a
maximum of two coding sections of the same polarity lie directly
adjacent to one another.

Claim 2 (previously presented): The device as claimed in claim 1,
wherein the length coding is produced as binary coding on the
basis of a binary pseudo-random sequence of predetermined word
length, wherein behind each bit of the pseudo-random sequence
there is inserted a bit of inverted value, so that the length
coding has a length twice that of the pseudo-random sequence.

Claim 3 (previously presented): The device as claimed in claim 1,
wherein the magnetic sensor unit includes means for detecting a
respective polarity of a plurality of coding sections which are
each spaced apart from one another by a distance of twice the
smallest pole division.

Claim 4 (currently amended): The device as claimed in claim 3,
wherein the plurality of coding sections corresponds to the word
length plus ~~1~~ one bit of a binary pseudo-random sequence as a
basis for the length coding.

Claim 5 (currently amended): The device as claimed in claim 1,
wherein a plurality of scanning sensors of the magnetic sensor
unit ~~is~~ are assigned to a coding section corresponding to the
smallest pole division, wherein selection means are provided for
selectively selecting one of the plurality of scanning sensors
for evaluation by the electronic evaluation unit, said scanning
sensors being designed to detect a transition between the first
and second polarity between two adjacent coding sections.

Claim 6 (previously presented): The device as claimed in claim 5, wherein the selection means comprise at least five interpolation sensors (Sfi) which are arranged at regular distances from one another such that the distance between a first and a last of the series of interpolation sensors is more than twice the pole division.

Claim 7 (previously presented): The device as claimed in claim 1, including means for fine position determination within a coding section or a pole division, said means being designed to detect a course of the magnetization along the coding section in the longitudinal direction of the length coding and to determine a distance-proportional interpolation signal therefrom.

Claim 8 (previously presented): The device as claimed in claim 7, wherein the means for fine position determination are embodied as an MR sensor that cooperates with the magnetic sensor unit and scanning sensors provided therein, which MR sensor determines the interpolation signal from the magnetization course.

Claim 9 (previously presented): The device as claimed in claim 8, wherein correction means are assigned to the means for fine position determination, said correction means being designed to correct and/or compensate output signals from the means for fine position determination in relation to an idealized and/or predetermined course along the coding section.

Claim 10 (cancelled).

Claim 11 (cancelled).

Claim 12 (previously presented):   A device for position and/or

length determination, comprising a carrier unit with an absolute magnetic length coding and a measuring unit that cooperates with the carrier unit and is movable relative thereto, said measuring unit having a magnetic sensor unit (SCi, SFi) and being able to be connected to an electronic evaluation unit (18 to 32) that is located downstream of said measuring unit, wherein the carrier unit has magnetic length coding as a circular closed curve and a plurality of coding sections with a regular pole division is provided along a length coding and coding sections of a first polarity are arranged to alternate with coding sections of a second polarity along the carrier unit in such a way that a maximum of two coding sections of the same polarity lie directly adjacent to one another.